# **UIVERSIFICATION ON**

Oats Should Be Principal Stock Feed in Cotton Belt.

MOST PROFITABLE IN SOUTH

Plant Would Reduce Washing and Leaching to Minimum, Furnish Grazing and Add to Deficient Supply of Humus.

(By G. H. ALFORD.)

From October 1 to November 15, according to the latitude, is the best time to sow oats in the cotton beit. The oat crop should be made the principal stock feed grown in the cetton belt. The area in oats should be fully as large as that in corn, but let us not forget the facts that as a stock feed and cash crop, oats is one of the best crops that can be grown in the

The chief crops grown all over the cotton belt are cotton and corn. As an average for a ten-year period of 1900 to 1909 there was planted from 10 to 15 acres of corn for each acre of oats in the various cotton belt states. During the same time an average of the oat crop per acre was \$10.09, while the average value per acre of corn was \$11.02. Figuring the cost of growing an oat crop and a corn crop, we find that the oat crop was the most profitble. There are several important reasons why we should sow millions of leaching to the minimum, furnish grazsupply of humus, add to the always oats on average soil. short supply of feed stuffs and supplement the money crop-cotton.

cover crops than oats. Burr clover pler and Bancroft are so nearly alike and crimson clover are the vetches, that no one can tell them apart if and in some cases some of the other shown side by side. The Burt oat is winter cereals are better. We do not claim that cats alone or that cats and The quantity of s hairy vetch combined should be grown sary to sow an acre of oats is variable. for the sole purpose of supplying a If sown early in the season or sown on cover crop. However, in view of the fact very fertile soil a smaller quantity of that oats will grow on poor land poor- seed may be used than if sown late ly prepared, and it costs little to seed or sown on poor land. If the crop is



Good Oat Crop.

crop for the many thousands of farmers who have not learned to grow winter legumes.

Two and one-half acres were planted in oats at the experiment station at Baton Rouge, La., for a grazing experiment on September 28. October 29 seven Poland China hogs, weighing in total 276 pounds, were put on this plat and were given no feed but the green oats during the winter. February 17 the pigs weighed a total of 568 pounds. There was an average gain og .37 pound per pig per day for 110 days. From October 29 to January 1 45 head of sheep were pastured on this same plat. Of this number, eight ewes and nine lambs were pastured continuously there after February 17. at which date the lambs averaged 68 days old and 35.5 pounds each. Allowing six cents per pound for the lambs, we have a return of \$13.40 per acre, plus the pasturage of the sheep not

considered in the estimate. The loss of humus in the soil results in the increasing of its power of storing up and properly supplying crops with water. Soils with a liberal supply of humus are capable of more effectually withstanding drought than similar soils with less humus. The oat crop fills the soil full of roots, and the stubble also adds much humas to the soil.

The oat grain is very valuable feed, and the large amount of ash and min- the weeds once or twice. eral matter. Pound for pound, oats are not as valuable for feeding mature animals as corn, four pounds of to harvest. It is best to cut when in corn being equal to about five pounds of oats. However, when we consider the cost of growing the two crops and the fact that feed is always scarce when the oat crop is harvested, we are forced to admit that every farmer in the cotton belt should grow oats.

In attempting to build up the wornout cotton lands, we must depend very feed, and the manure returned to the crops after oats. land. If we are going to build up our land and raise good stock, we must agriculture and the increasing of the grow oat crops and follow with legume

Oats are probably the best paying hasten the day of independence on small grain crops that can be grown the cotton belt farms.

over practically the entire cotton belt. The same soil that will produce one bale of cotton or 40 bushels of corn, per acre will produce 60 bushels of SOUTHERN FARMS oats. At the average price that has prevailed for oats during the last five years, the 60 bushels will sell for from oats. At the average price that has \$36 to \$40 and the straw, when baled, will often pay for growing the grain.

It is best to plant oats after corn and peas. Cut the corn stalks and pea vines into pieces with disk harrow. The disk harrow is the best possible implement in preparing the corn and pea fields for cats. The drill will clog in trashy ground and particularly when working in uncut stalks and pea vines. When the disk harrow is used before the land is broken, the drill runs freely and easily, thus depositing

#### HOW CAN I INCREASE THE YIELD AND QUALITY OF MY OATS?

- 1-Fan and Grade Seed.
- 2-Seed Early. 3-Early and Medium Varieties
- Best. 4-Better Prepared Seed Bed.
- 5-Drilling Better Than Broad casting
- 6-Treat Early Oats for Smut. 7-Always Sow Clover.
- 8-Save the Crop by Good Shocking and Stacking.

the seed evenly. After using the disk harrow to cut the corn stalks, plow the land deep, then disk and double disk, and harrow and cross harrow until every inch of the soil has been stirred and broken as fine as possible.

A mixture of 300 pounds of 16 per cent. of acid phosphate, 100 pounds of acres of cats in the cotton belt. The cotton seed meal, and 200 pounds of oat crop would reduce washing and potash, followed in March with a top pressing of 50 to 75 pounds of nitrate ing, add to the deplorably deficient of soda per acre is good fertilizer for

The best variety for fall sowing in the south are Red Rust proof type. Of course, there are better winter The original Red Rust proof, the Ap-

The quantity of seed that is neces an acre, it is a good winter cover planted 25 per cent. less seed may be used than if the same crop were to be

sown broadcast. There are three methods commonly practiced of planting oats, namely: Sowing broadcast, open furrow and drilling. Drilling of the seed is to be preferred, since considerably less seed can be used if drilled by machine; the drilled oats is usually greater than that ternity are turned down. from broadcost oats. The seed saved, A series of demands were drawn up good drill on the farm

ing lespedeza, cow peas, soy beans and laws governing organized baseball. It peanuts, as these crops are almost as was said that already 65 per cent. of Siamese twin Ang was of his brother have indorsed the proposition. Chang.

As soon as all danger of frost is past, sow about one bushel of lespe- are: deza right on top of the growing oats, ever. It is advisable to divide the bushel into two halves and sow them ditional release. broadcast, first one-half over the land half walking north and south.

The oats will be ready to cut in May and June. At this time the lespedeza plants will be so small as to be hardly perceptable, though you can see shall be released to the minors unless the strength and water from the soil but the first summer rain makes a difand threaten to choke out the lespe-

#### OATS. COST OF GROWING.

Seed\$	1.58
Preparing Ground	1.45
Harvesting	1.25
Stacking	,50
Thrashing	1.20
Rent and Repairs	4.16
Total\$	10.14
AVERAGE OF 26 FARMER	2

deza plants. At this time it is necesespecially for young animals, because sary to set the mower blade so high of its moderately high protein content as not to touch the lespedeza and top

> The lespedeza begins to bloom in September and October, and is ready bloom and all green.

Do not cut when wet from dew or rain. Mow in forenoon, windrow and cock in five or six feet high, 200 to 300 pounds to the cock and cover with lowells or eight-ounce duck covers about nine feet square. After about three days open out, air is needed, and haul to barn or stack. It is, of course, largely on the leguminous crops. Now unnecessary to offer suggestions relathe oat crop is harvested early enough tive to the growing of cow peas, soy to permit the growing of a leguminous beans and peanuts after oats. The crop. The leguminous crop may be farmers of the cotton belt have had plowed under or it may be used as some little experience in growing these

The development of the diversified acreage devoted to the oats and the leguminous crops will do, much to

### LEADER OF THE NAVY ACADEMY ELEVEN



Captain Gilchrist.

Under the able direction of Captain Gilchrist, and backed up by Coach J. A. Reilly, who played halfback at New Haven two years ago, the midshipmen of Uncle Sam's Naval academy are being put through their practice games in preparation for the big game with their gridiron enemies of Uncle Sam's Military academy,

### CHANGE IN RULES IS ASKED

Players' Fraternity Draw Up Demands and Stars Will "Hold Out" if Magnates Refuse Them.

If the members of the baseball players' fraternity stand pat on their denands made on the major league magnates and the latter refuse to give in seeds are covered at a uniform depth to their aims, there should be a wholeand come up, grow, and ripen uni- sale holdout when it comes to signing formly; the small ridges made by the contracts next year. A number of the drill afford a slight degree of protec- big league stars have already agreed tion from the cold; and the yield from to hold out if the demands of the fra-

and the larger crops that usually re recently and will be placed in the sult from drilled oats, will soon pay hands of the magnates during the winter, after which they will be sub-It is well nigh impossible to discuss to the national commission with the oats in the cotton belt without discuss- request that they be made part of the much a counterpart of oatc as the the members of the players' fraternity

> Four important demands are under consideration, it is understood. They

No player who has been a member and make no attempt to cover what of a major league club for ten years shall be given other than his uncon-

No player who has been a member walking east and west and the other of a major and minor league club, inclusive, for 12 years shall be given other than his unconditional release. No player who has been carried on

a major league's pay roll until July

whether you have a stand or not. Up waivers are secured from the 16 clubs to that time the oats have been taking of the American and National leagues. A major league club owner shall be prohibited from carrying a player who ference. The weeds come with a rush has an opportunity to play on another major league club until the late months of the season, thus taking advantage of the time when the teams

PHILLIPS.

are carrying many recruits, to send

the player in question to the minors.



Left Tackle on Princeton Team.

#### FOOTBALL IS MADE A "SPECIAL STUDY"

Football has been advanced to the dignity of a "special study" at Wesleyan university this year. The faculty announcement made at the opening exercises included this statement, and assigned Daniel Hutchinson of the University of Pennsylvania, as special football instructor, assisted by Doctor Fauver, professor of physical educa-

Under this faculty indorsement a winning football team is expected.

### TALBOT.



Left Tackle on Yale Team.

PLAN A. A. U. CHAMPIONSHIPS

Ten-Mile Run, Seven-Mile Walk and Two Cross Countries Will Be Held in Vicinity of Gotham.

A mail vote on the holding of the ten-mile run championship, seven-mile walk, junior national cross-country and senior national cross-country championships for 1913 has been called for by James E. Sullivan, chairman of the championship committee of the Amateur Athletic union of the United

It is planned to hold all these championships in the vicinity of New York. In all probability the ten-mile run and seven-mile walk will be held on November 29, at a place to be selected later. The junfor and senior crosscountry championships will probably be held over the national course at Van Courtland park on November 8 and 15, respectively. The intercollegiate cross-country championships will also be held over the Van Courtland park course November 22.

Home Run Record. Dolly Gray, right fielder of the Charleston team of the Ohio State league, has broken all records for home runs the past season by smashing 23 round-trip wallops. Buck Freeman made 30 home runs while playing for Washington some years ago.

Real Football Player Is Thinking Every Minute of Game.

Rule Which Allows Punting Anywhere Behind Scrimmage Line Permits Revival-Officials Must Watch the Ball Closely.

With the playing of the opening games of the 1913 football season, close followers of the game, especially those who played under the old rules, are watching with interest the manner in which the players take advantage of the rules, some of which permit foxy players to "pull off" the unexpected if certain plays are used at the proper time.

Although the rules have not been changed to any great extent, there are many ways in which a heady player can keep his team out of danger by carefully sizing up the situation and ascertaining the plays which might work the best when his team is crowded near his own goal line. A real football player is thinking and scheming all the time, and it is this type who generally makes a name for himself.

The rule which states that when a forward pass is thrown out of bounds before striking the ground in the field of play the ball shall go to the opponents at the point where it crossed the sideline, is one which has not been taken advantage of enough. There are many players in a squad who can hurl the oval 40 or 50 yards with the accuracy of a baseball. If a coach is fortunate enough to have such a player this man should be carried along for this specialty.

Under the ruling which allows a resubstitution of a player at the beginning of the second and third quarters and at any time during the final period, a player who can throw the ball out of bounds 30 or 40 yards down the field is a valuable asset. If a team is close pressed and finally takes the ball away from its opponents on the one or two yard line, the natural thing to do is to punt the ball as far out of danger as possible.

In striking contrast to this method of preventing a team from scoring RED, ROUGH HANDS MADE would be the sure, safe method of throwing the ball out of bounds 30 or 40 yards down the field. Even if the wind were blowing against the oval the passer would get more distance to his throw than a kicker, for the simple reason that the ball is thrown in a spiral fashion, thus allowing the ball to bore through the air and with a definite direction. The defensive any distance.

The preliminary practice every season | ticura Olniment are wonderful. is devoted to kicking and throwing the oval, and the coaches now should have a good line on the men who are

most adept in handling the ball. The change in the rules which allows the ball to be kicked from any point back of the scrimmage line in sure to bring back the on-side kick, considered by many to be one of the

most valuable ground gaining plays. As the rule this season permits the kicker to boot the oval from any position, the old on-side kick is sure to come back into its own and bo used a great deal. The play will be all the more valuable because the ball is free property the moment it strikes the ground, whereas in the old days the oval had to be touched by an opponent before one of the kicking side could recover it. As a result there is going to be plenty of scrambling for the ball, so the officials will have to be on top of the play all the time to award the oval to its logical owner. Although these plays should come in for a lot of consideration by coaches and players, there are other points which are of invaluable assistance to a team if the players carry out instructions. The point regarding a player stepping out of bounds or fighting to cross the side line when he is cornered is a most important one. When a team in possession of the ball is crowded within two yards from the side line the offensive eleven is in a "hole" and its chances

of gaining ground mightly slim. The players always should remember to fight to get out of bounds when tackled close to the boundary. It is almost impossible to gain ground on the wing close to the side line and it is almost as hard to make any headway on the wide side because the defense is shifted over to meet an expected attack. If a team is forced against the boundary it is much better to lose a down by sending a play out of bounds than it is to try to gain through the line or on the wide side.

Think Term Unfair.

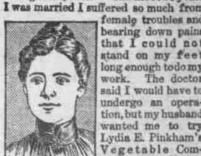
A letter writer questions the use of ths term "Big Three" as applied to Harvard, Yale and Princeton. He thinks it unfair to Penn, Cornell and Dartmouth. Its origin dates from 1874, when Harvard took up the game and the triangular tournament came into existence, Princeton having adopted the game in 1869 and Yale in 1872. Penn did not take up the game until 1876, Dartmouth in 1832 and Cor nell in 1887.

Corbett at Stillwater. John Corbett, the former Harvard gridiron star, has been secured to coach the football squad of the A. and M. college at Stillwater, Okla.

### SCHEMES OF GRIDIRON MRS. MANGES ESCAPES **OPERATION**

How She Was Saved From Surgeon's Knife by Lydia E. Pinkham's Vegetable Compound.

Megadore, Ohio .- "The first two years I was married I suffered so much from



female troubles and bearing down pains that I could not stand on my feet long enough todo my work. The doctor said I would have to undergo an operation, but my husband wanted me to try Lydia E. Pinkham's

pound first. I took three bottles and it made me well and strong and I avoided a dreadful operation. I now have two fine healthy children, and I cannot say too much about what Lydia E. Pinkham's Vegetable Compound has done for me." - Mrs. LEB MANGES, R. F. D. 10, Mogadore, Chio.

Why will women take chances with an operation or drag out a sickly, halfhearted existence, missing three-fourths of the joy of living, when they can find health in Lydia E. Pinkham's Vegetable Compound?

For thirty years it has been the standard remedy for female ills, and has restored the health of thousands of women who have been troubled with such ailments as displacements, inflammation, ulceration, tumors, irregularities, etc.

If you want special advice write to Lydia E. Pinkham Mediciae Co. (confi-dential) Lynn, Mass. Your letter will be opened, read and answered by a woman and held in strict confidence.

No Bait for Fortune Hunters. "Did Kate's husband leave her much when he died?"

"Not enough to get her a second husband."-Boston Evening Trap

### SOFT AND WHITE

For red, rough, chapped and bleeding hands, dry, fissured, itching, burning palms, and painful finger-ends, with shapeless nails, a one-night Cuticura treatment works wonders. Directions: Soak the hands, on retiring, in hot water and Cuticura Soap team has no chance of receiving a free Dry, anoint with Cuticura Ointment. trial at the goal, and there is no and wear soft bandages or old, loose chance of the catcher running the ball gloves during the night. These pure, sweet and gentle emollients preserve This play was used sparingly last the hands, prevent redness, roughness season, especially in the early stages, and chapping, and impart in a single Near the close of the year the coaches night that velvety softness and whiteused it more, and soon discovered the ness so much desired by women. For value of a man who could throw the those whose occupations tend to ineval a long distance with accuracy. Jure the hands, Cutleura Soap and Cu-

Cuticura Soan and Ointment sold throughout the world. Sample of each free, with 32-p. Skit, Book. Address postcard "Cuticura, Dept. L. Boston."-Adv.

The cost of the navies of the world last year aggregated \$725,000,000.

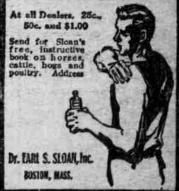
### Sprains, Bruises Stiff Muscles

are quickly relieved by Sloan's Liniment. Lay it on—no rub-bing. 'Try it.

Ankle Sprain and Dislocated Hip. "Isprained my ankle and dislocated my hip by falling out of a third story win ow. Went on crutches for four months. Then I started to nes your Liniment, according to directions. I must say it is helping me wonderfully, we will never be without Sloan's Liniment anymore."—Chas. Johnson, Lauren-Statton. W.

## SLOAN'S Kills Pain

Splendid for Sprains I fell and sprained my arm a w o and was in terrible pain. I co t use my hand or arm until I appl ur Liniment. I shall never be w



LEARN SHORTHAND BY MAIL, from a

PISO'S REMEDY